BRUHATH BENGALURU MAHANAGARA PALIKE

Yelahanka Division, Yelahanka Zone

Executive Engineeer
Yelahanka Division
B.B.M.P. Bengaluru - 64

APPROVED SCHEDULE –'B'

Name of Work:-Development of Rangamandhira in Ganesh park of Yelahanka A Sector of ward no:04

Sl	Description	Unit	Approved Qty	Approved Rate Technical Manager (West) KRIDL, BBMP,	
				Rate	Rate in Words
1	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)	cum	114.69	204.12	Rupees two hundred four and pai twelve only
2	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 134 (SR 2016-17)	cum	114.69	87.26	Rupees eighty seven and pais twenty six only
3	KSRB-4-1.2 : Providing and laying in position plain cement concrete of mix **1:3:6 withOPC** cement at 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.465cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.2/ PWD SR 2016-17	Cum	79.62	5449.68	Rupees five thousand four hun forty nine and paise sixty eight
4	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (Page No. 23/ Item No 5.6)	Sqm	57.60	4521.96	Rupees four thousand five hun twenty one and paise ninty six
5	Providing vitirified glazed tiles of approved make quality & colour or sizq 600x600x10mm thicj fised on bed of 12mm thick cement morter for flooring skirting and joined with pigment to mach shade of tiles including providing spacers at required interval and removing stains including cost of all materials morter labour etc., complete as pwe specification item No 14.45/page no 107 PWD SR 2016-17	Sqm	351.50	1200.96	Rupees one thousand two hun and paise ninety six only

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and 1% Labour Welf

Sl	Description	Unit	Approved Qty	Approved Rate Technical Manager (We KRIDL, BBMP	
				Rate	Rate in Words
6	KSRB 15.1.1: Providing **flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.(Page No.113/Item No. 15.1)	Sqm	68.00	104.76	Rupees one hundred four a seventy six only
7	KSRRB M300-53: construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No. 305.4.3, No. 156/ Item No. 19.60/ PWD SR 2016-17	cum	105.00	326.16	Rupees three hundred tw and paise sixteen or
8	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, **retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc**, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	Cum	31.90	6491.88	Rupees six thousand four ninty one and paise eighty e
9	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46/ PWD SR 2016-17	Quintal	10.73	5605.00	Rupees five thousand six h five only
10	Fabricating supplying and erecting M.S. TubulerTruss of span upto 10m bottom and top member is provided with 50x50x6mm double equale angles, welded back to back and in between top and bottom line, in ereas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided all the members are weldeded toghter with 6mm gusset plate as per drawing, The enter truss is anchored in RCC column buy using 4Nos of M.S anchor bolts at eacth support, with 10mm thick base plate and shoe plate. The work includes cutting, straightening , pacing in position of M.S angle and welding wherever necessary, and applying one of red oxide primer coat to all the members including cost of all materials, labour charges,and higher charges of mechineries for cutting welding, granding and erection equipments, with all lead and lift, transportation, etc, complete as per specification. Page No. 45/ I No. 7.29/ PWD SR 2016-17	Kgs	8592.86	118.80	Rupees one hundred eighte paise eighty only
11	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trpezoidal profiled sheet of approved make 1060mm width (1000mm cover width), 28-30 mm crest height with cest distance of 200 mm c/c with 2ribs at the center for stiffening , The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc –Alu Alloy coating AZ 150 gsm as pe ASTM 1397/A755-550 mpa steel grade. 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling /self tapping screws of 25mm length,to be fixed over the existing purlins, rafters channel and trusses. No. 300/ Item No. 38.30 PWD SR 2016-17	sqm	324.00	831.60	Rupees eight hundred thirty o paise sixty only

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Sl.	Description	Unit	Approved Qty	Approved Rate Technical Manager (W KRIDL, BBMP,	
				Rate	Rate in Words
12	Supplying and fixing **M.S Rectangular poles** made out of 2 equal angles of 65x65x6 mm welded together and fixed in cc1;2;4 with 2 nos16 mm dia M,S Hold fasts rods of each length 25 cms, including cost of all materials, cutting,bending scaffolding where ever necessary,nice finishing the welded joints with all lead and as per the direction of the Engineer in charge of the workand including providing 2 coats of approved quality paint over one coat of shop painting(excluding the cost of earth work and concrete) (Page No. 255/ Item No. 37.2)	Mtrs	62.50	884.52	Rupees eight hundred eight and paise fiftry two only
13	Providing and fixing **M.S Block pipe of 38 mm dia,** of heavy guage of 14 including the removing the bends,cutting the pipe and fixing the pipe inbetween the two verticle polesM.S Rectangular pole and spot welding the chain linking with M.S Blockpipe including cost of all materials,wastage in cutting and scaffolding where ever necessary with all lead and liftas per the direction of the Engineer in charge of the workand including providing 2 coats of approved quality paint over one coat of shop painting (Page No. 255/ Item No. 37.4)	Mtrs	100.00	349.92	Rupees three hundred forty nine paise ninty two only
14	Providing **chain link fencing 50** mmsize of 8 guage properly stretched bet ween the rectangular poles and fixed with suitable bolts and nuts ,the free ends shall be welded to the pole and block pipe at top and bottom as required , including cost of all materials, labour lead and,liftj and as per the direction of the Engineer in charge of the workand including providing 2 coats of approved quality paint over one coat of shop painting (Page No. 255/ Item No. 37.3)	sqm	100.00	711.72	Rupees seven hundred eleven an paise seventy two only
15	KSRRB 800-1: **painting two coats after filling the surface** with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specification MORTH chapter 8, No. 182/ Item No. 24.1/ PWD SR 2016-17	sqm	270.00	64.80	Rupees sixty four and paise eigh only
16	Providing and fixing M.S Gate as per chief architect drawing using 50mm x 50mm 14 guage M.S hollow pipe frame work bent to ornamental shape as shown in the drawinf and 35mm x 6mm and 16mm x16 mm squre rods for verticle alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S flats for horizontal member and at the top cast iron spikes are provided at alternate verticle members as shown in the drawingetc., complete all the steel surface shold be thoroughly cleaned free of dust and painted with anti corrosive paint (shop paint) etc.,complete the work includes cost of all materil labour charges for all items of work, hire charges for welding, cutting and grindingequipment and electrically charges with lead and lift, loading and unloading charges complete as per specification(P.42&43 / I.N 7.37)	Sqm	22.50	3299.40	Rupees three thousand two hun ninty nine and paise forty on
17	Natural Sand 5.6 to 75 micron Sl No 59 Code No 0772	Cum	24.00	1700.00	Rupees one thousand seve hundred only
18	KSRB 6-1.1 : Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 35 with mud mortar for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.Specification No. KBS 6.2 Page No.27 / Item No. 6.1/ PWD SR 2016-17	Cum	6.90	5523.12	Rupees five thousand five hun twenty three and paise twelve

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Sl	Description	Unit	Approved Qty	Approved Rate Technical Manager (We KRIDL, BBMP	
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19	KSRB 15.3.13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Page No. 114/ Item No. 15.21 PWD SR 2016-17	Sqm	30.00	208.44	Rupees two hundred twen and paise forty four o
1	pointing wiring using copper with switch: Supplying and wiring adoping loop system in exiting PVC conduit/casing caping using copper PVC insulated multi strand 2 x1.5 sqmm coper wire with a 6 Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of wires shall be terminated with sufficient loose length in a wood/PVC round block. Complete for each outlet.II point wiring using class B materials (3/6) a) Short point upto 3 mtrs from tapping point to out let via switch	Each	6.00	160.00	Rupees one hundred sixty
	Medium point above 3Mtrs upto 6Mtrs from taping point to out let via switch	Each	6.00	245.00	Rupees two hundred forty fiv
	a) Long point above 6Mtrs upto 10 Mtrs from tapping point to out let via switch	Each	6.00	345.00	Rupees three hundred forty fiv
2	Wiring for lightin/power circuit using one of PVC insulted 1100v grade,multistrand copper conductor single core cable in open or consealed system of wiring.II Group B e) 6 sqmm (9/20)	Each	25.00	45.00	Rupees forty five only
3	Groove Cutting : Supplying ... dia 2mm/2.5mm thick heavy gauage PVC Conduit Pipe with bends metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary a) 19/20mm dia 2mm thick (2/3)	Per Mtr	25.00	43.00	Rupees forty three only
4	Supplying and fixing PVC/metal conduit accessories special type Junction Box a) 19/20mm junction box (3/5)	Each	6.00	18.00	Rupees eighteen only
	DEEP Junction Box a) 18/20 mm deep junction box	Each	20.00	29.00	Rupees twenty nine only
5	32.Supplying and fixing metal fan box with round hook (32/11)	Each	10.00	72.00	Rupees seventy two only
6	Supplying and flush mounting teak wooden box with out front plank made of not less than 12mm thick wood after due groove cutting necessary masonry patch work complete. (6/3) b) 12"x9"x3" (300x228x76mm)	Each	6.00	80.00	Rupees eighty only
7	Supplying and fixing of modular switch/Scocket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate. II using group B" Meterial (8/18) e) 600 watts dimmer	Each	6.00	390.00	Rupees three hundred ninty only
	g) 16 Amps one way switch	Each	4.00	115.00	Rupees one hundred fifteen only
	J) 6/16 Amps Universal Socket	Each	4.00	170.00	Rupees one hundred seventy on
8	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches regulators etc., and fixing on existing wooden or metal box using N.F.Screws. (22/10)	sq.cm	1500.00	0.22	Paise twenty two only

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Sl	Description	Unit	Approved Qty	Approved Rate Technical Manager (V KRIDL, BBMP,	
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9	Supplying surface mounted type mirror optic luminaries for single/twin 36/40 watts fluorescent lamps cross rising of stove enameled deep coloured M.S.low profile housing complete with all accessories and high purity anodized aluminium reflector assembling along with cross louvers including necessary fluorescent tubes with Energy saving Electronic Ballest Etc. complete set II 2x4' 36/40 watts B) group B' (5/17)	Each	4.00	2500.00	Rupees two thousand *five h only*
10	supplying capacitor type celing fan complete with dawn blades,shackle,canopies etc for operation on 230 Volts, 50 cycles,single phase AC supply conforming to ISS-374-1979 and with double ball bearing system and as per technical data approved 1 48" Sweep(1200 mm) a) Regular Model (23/23)	Each	4.00	1800.00	*Rupees one thousand eight hu only*
11	Supplying exhaust fan of 1440 RPM of 300mm (12") size with bracket blades complete for e for light duty suitable for operate on 230 V 50 Hz, AC Supply... a) Group A' (21/22)	Each	4.00	1250.00	Rupees one thousand two hun fifty only
12	Supply patty type fluorescent tube light fitting of 4-36/40 watts flourescent tube fitting,made out of M.S sheet and stove eanmeled with low loss open construction copper wound ferromagnetic ballast, strter,locking type prass contact holders mounted on double fold type sheet base fully wired for use on 230 volts A C supply including 1NO 4-36/40 watts fluorescent tube.) (2/16) Group A	Each	4.00	360.00	Rupees three hundred sixty o
13	Fixing all types and all capacities fluorescent/false celing/spot light/CFL fitting indoor on the wall/ celing/rafters/griders using 23/0.0076" twin twisted PVC insulated wires,required nos of blocks and clamps(if required) a) On wall/ ceiling/ Rafter/Griders (7/29)	Each	10.00	105.00	Rupees one hundred five or
14	Fixing one ceiling/wall mounting fan of all capacities and all types to the exiting S hook with fan regular to the exiting board together with supplying and fixing a 5 ampers ceiling rose,necessary langth of 23/0.0076 inch PVC insulated twin twisted copper wire and wiring completely. (8/29)	Each	8.00	105.00	Rupees one hundred five c
15	Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts 5 amps ceiling rose with sufficient length of 23/0.0076 inch PVC insulated twin core wire of apporoved Make (12/29)	Each	4.00	310.00	Rupees three hundred ten
16	Supplying,fixing wiring earth electrode for grouding conduits I.C cutouts and other equipment on the meter board using 40mm dia 2.90 thick GI2.5 mtrlong buried in a pit should be filled with equal proporation of salt and charcoal 150mm alround the pipe to complete depth. The conection from the pipe to the conduit etc is to be established throughGI wire of size as oer ISI specifications 7.33 of IS 732 using 12mm dia bolts,nuts,washers and checknuts etc,the pipe shall have 16 through holes 12mm dia (68/01)	Each	2.00	1950.00	Rupees one thousand nine h fifty only

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Sl	Description	Unit	Approved Qty	Rate	Rate in Words
17	suplying and mixing miniature circuit breakers on exiting MCB distribution boards using necessary fixing materials and C type curve,indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10k and complete wiring as required. a) 32 Amps SP 1)Group A (12/36)	Each	4.00	195.00	Rupees one hundred ninty fi
18	Energy meter box. Supply and instalation/fixing/ provision of outdoor type thermoplastic modular panel enclousers with transperent polycarbonate lid shock proof,coreosion proof having internally embedded gasket on both lid and flap suitable to fix. Single phase/three phase energy meter in suitable base plate and having a provision fo fuse/ MCB cutout with suitable transperent hinged flap opening for operating MCB along with complete tamper proof SEALING facility. a) 300 x 300 x 214 mm (40/42)	Each	3.00	3055.00	Rupees three thousand fifty fiv
19	Supplying of LT UG cable having aluminium conductor PVC insulated,sheathed,galvanized,steel wire/steel tap armoured cable with PVC outer sheathing 1.1KV class A PVC Cabled)4 core 16 sqmm (68/04)	Per Mtr	4.00	150.00	Rupees one hundred fifty onl
20	Labour charges for laying of 1.1KV Class UG cable in existing trench GI pipe stoneware pipe/on wall/on pole as required a) 6sqmm to 16 10 sqmm (5/69)	R.Mtr	10.00	8.00	Rupees eight only
21	Digging of trench of 0.6mm deep * 0.50 mtr wide refilling the trench to the required ground level and consolidating etc. complete.(As per Civil SR KSRB 1-2p-7)a. in Ordinary soil (6/70)	R.Mtr	10.00	40.00	Rupees forty only
22	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not lessthan 3.25mm on pole/wall/drain crossing eith necessary clamping arrangements for UG cable of 1.1 KV class B.50 mm (9/70)	Mtr	3.00	260.00	Rupees two hundred sixty only
23	Suplying and fixing L.T cast Iron Pot Heads suitable for 1.1KV class UG cable filled with Necessary bitumen/insulating compound complete with erminals,clamps,bolts,nuts and washers etc,. b. 16 Sqmm (10/70)	Each	3.00	260.00	Rupees two hundred sixty only
1	KSRB 13-8.11 Providing and fixing to wall, ceiling and floor, low-density polyethylene pipes 10.00KGf/sq.cm. working pressure 25mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling an floor including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No. 13.2.15.1 / 13.9,, Page No. 103/ Item No. 13.76 / PWD SR 2016-17	Mtrs	20.00	117.72	Rupees one hundred seventeen and paise seventy two only
2	KSRB 12-1.1 : Providing and laying in position to required level or slope 200mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints, including cost of materials, labour charges complete as per specifications.Specification No. KBS 12.2.5/12.7 Page No. 67/ Item No. 11.3/ PWD SR 2016-17	Mtrs	10.00	516.24	Rupees five hundred sixteen and paise twenty four only

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Sl. No.	Description	Unit	Approved Qty	Approved Rate Technical Manager (West) KRIDL, BBMP, Rate	Rate in Words
3	KSRB 12-8.1 : Constructing brick masonry inspection chamber 455x610mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I. cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg) R.C.C. top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specificationsNo.KBS Page No. 70/ Item No. 11.50 PWD SR 2016-17	Unit	1.00	7604.28	Rupees seven thousand six hu four and paise twenty eight
4	KSRB 13-6 5.1: Providing and fixing in position 15mm nominal bore brass ferrule with C.I. mouth cover including boring and tapping the main, cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specifications NO KBS 13.3.3 / 13.14 Page No. 89// Item No. 13.43 / PWD SR 2016-17	Each	2.00	196.56	Rupees one hundred ninty si paise fifty six only
5	Providing Supplying and commissioning of 1 HP submersible Monoblock pump with starter 15mm cable with necessary GI fittings with suction & Delivery hose pipes including necessary fittings etc completed as per specifications.	Nos	1.00	10000.00	Rupees ten thousand onl

Signature of the Contractor

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Executive Engineer,
Yelahanka Division,
BBMP, Bengaluru-64.